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Stated Meeting, May 19, 1893.

The President, Mr. FRALEY, in the Chair.

In the absence of all the Secretaries at the opening of the meeting, Mr. Lyman was appointed Secretary *pro tem*.

Mr. Cramp, a newly elected member, was presented to the President, and took his seat.

Letters of envoy were received from the Royal Geographical Society of Australasia (Victoria Branch), Melbourne; Geological Survey of India, Calcutta; Université Royale, Lund, Sweden; K. K. Astronomisch-Meteorologische Observatorium, Triest, Austria; Musée Guimet, Bureau des Longitudes, Paris, France.

Accessions to the Library were reported from the Royal Geographical Society of Australasia (Victoria Branch), Melbourne; Finska Litteratur, Salskapet, Helsingfors; Lund University, Lund, Sweden; M. W. Pleyte, Leiden, Holland; Observatorio Marittimo, Trieste, Austria; Naturwissenschaftliche Verein, Bremen, Germany; Naturforschende Gesellschaft, Zurich, Switzerland; Academie N. des Sciences, Bordeaux, France; Société N. des Sciences Naturelles et Mathématiques, Cherbourg; Société de Borda, Dax; Academie des Arts et Belles-Lettres, Dijon; Union Geographique du Nord de la France, Donai; Société des Sciences Naturelle et Archæologiques de la Creuse, Guéret; Société des Sciences Naturelles, La Rochelle; Comité de Rédaction des Annales de la Faculté des Sciences, Marseille; Musée Guimet, Museum d'Histoire Naturelles, Société Zoologique de France, Société D'Anthropologie, Bureau des Longitudes, Société N. des Antiquaires de France, Paris; Société des Antiquaires de la Morinie, Saint Omer; Société de Geographie, Toulouse, France; Société de Geographie, Lisbon, Portugal; Geological Society, Manchester, Eng.; Natural History Society, Montreal, Canada; Boston Public Library; Academy of Sciences, New York;

Mr. Burnet Landreth, Bristol, Pa. ; Mr. William John Potts, Camden, N. J.; Franklin Reformatory Home for Inebriates, Prof. E. D. Cope, Messrs. Alexander E. Outerbridge, Joseph Wharton, Philadelphia; U. S. National Museum, Prof. Edward Goodfellow, Washington, D. C. ; Agricultural Experiment Stations, Geneva, N. Y.; Raleigh, N. C.; Lake City, Fla.; Brookings, S. Dak.

The donations to the library were announced.

The minutes of the Council meeting of the 12th of May were read. The resolution

That the Council recommend to the Society the appointment of Messrs. Meehan, Houston and Price as a Committee to Examine the Catalogue of the Martindale Library, in order to ascertain if any books contained therein are important to complete our list, and if so, to purchase the same at a cost not exceeding \$100—provided the money can be obtained from the income of the Michaux Fund, or by subscription.

recommended by the Council was considered.

Mr. Prime moved that Dr. Rothrock be added to the Committee. Carried.

Mr. Prime moved to amend by striking out from the last clause the words, "or by subscription." Carried.

The resolution so amended was carried.

The business of the election of new members was taken up.

Nominations Nos. 1250, 1253, 1254, 1255, 1256, 1257, 1258 and 1259 were read, spoken to, and balloted for.

Prof. Barker and Mr. Price were appointed tellers by the President.

Prof. Cope made a communication in regard to some stone implements occurring in Maryland, on the Potomac, the simplest yet found by him in forty years' collecting. The locality is two or three miles from the Potomac, is one-half mile to one mile in length, in material that is supposed to be derived from the Triassic and that has apparently been carried by floating ice. The locality is traversed by a small stream, with small hills on each side. There is a bed of reddish clay, up to six feet in thickness, filled with cobble-stones, many of them broken, and many worked; and some of them

have the external portions of the original shape entirely removed. Some of the most numerous class of them were exhibited, and have a portion of the original surface; others have a small portion of it; and others none at all. Many hundreds have been carried away by inhabitants of Washington, and many by Mr. W. H. Holmes, of the Bureau of Ethnology there. The method of manufacture was described; showing that the fractures could not be natural, but must be artificial. The question is, What are these objects? In Europe similar objects are reckoned as made by the earliest men, and are found at the lowest bed of the cave deposits. They are not polished. Now in Switzerland, for example, the paleolithic man is quite definitely associated with certain extinct animals. The later paleolithic man was an artist, while the following neolithic men were less artistic. Now, however, the Washington men insist that these ruder implements are only the imperfect or rejected implements of later men, merely the residue and rejected work of neolithic men; and in part the effect of weathering. One reason given why the more perfect implements are not found with them is, that the better ones have been carried away. The evidence in America is less perfect than in Europe, yet it is against supposing that the makers of the imperfect implements also had better ones. None of the better ones have been found in the whole region. The geological part of the investigation by the Washington men has been well done. At Trenton, however, they are thoroughly opposed by the good authority of Prof. F. W. Putnam. The history of man in America may be affected by the result of the discussion; but not that of European man. In America, too, the study of the caves has not been studied so far as in Europe; and the cave deposits give much the most trustworthy evidence. Mr. Clarence B. Moore has made important discoveries in Florida. He found a ramus of the lower jaw of a dog in a shell heap there this past winter. The shell heaps are post-Columbian. But this dog does not appear to be the present domestic dog. The jaw has three premolar teeth, instead of four, a deficiency which is

rare in the recent domesticated or wild dogs. There are also other peculiarities. Probably it is an extinct species, and it is a normal healthy specimen.

Prof. Ryder made a written communication for the Proceedings, entitled, "The Adaptive Forms and the Vortex Motion of the Substance of the Red Corpuscles of Vertebrates." He gave orally the substance of the paper.

The tellers reported the following named to have been duly elected members of the Society :

- 2218. Hon. Charles P. Daly, New York, N. Y.
- 2219. Prof. Isaac H. Hall, New York, N. Y.
- 2220. Gen. Isaac J. Wistar, Philadelphia.
- 2221. Mr. Edward Vincent d'Invilliers, Philadelphia.
- 2222. Prof. Waterman L. Hewitt, Ithaca, N. Y.
- 2223. Dr. Justin Winsor, Cambridge, Mass.
- 2224. Dr. William Hyde Appleton, Swarthmore, Pa.
- 2225. Prof. James E. Rhoads, Bryn Mawr, Pa.

Mr. Blodget obtained unanimous leave to make a communication. He had prepared a series of ten maps to show the resources of the State of Pennsylvania for the Chicago World's Fair. The maps are some thirty inches by twenty inches. Bituminous coal, oil and other products are represented on the series of maps, showing their past and present importance. The true capitalization of the yearly industrial earnings of the State he finds to be about \$10,000,000,000. The results have been reached by five or six months' labor.

And the Society was adjourned by the President.